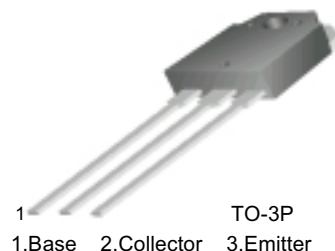


TIP41CP

TIP41CP

Medium Power Linear Switching Applications

- Complement to TIP42CP



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_C=25^\circ\text{C}$ unless otherwise noted

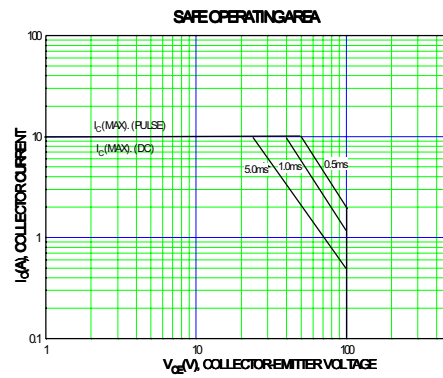
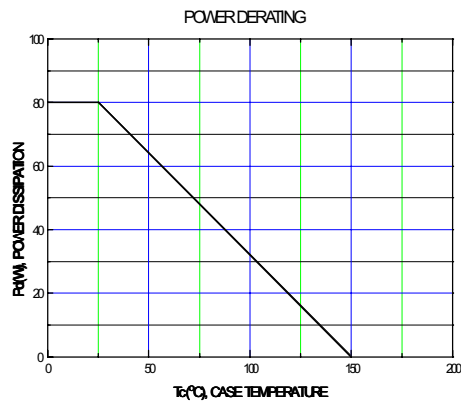
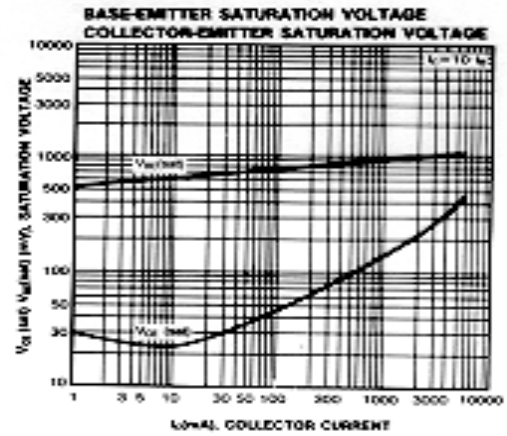
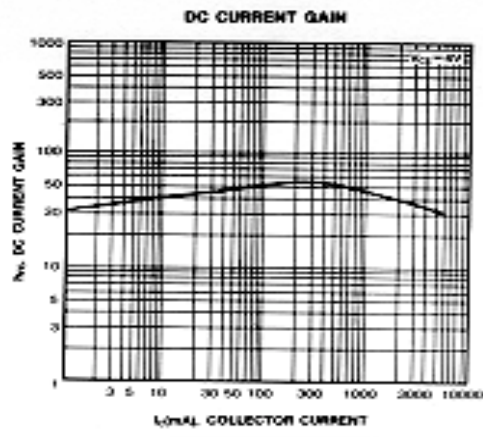
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	100	V
V_{CEO}	Collector-Emitter Voltage	100	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current (DC)	6	A
I_{CP}	Collector Current (Pulse)	10	A
I_B	Base Current	2	A
P_C	Collector Dissipation ($T_C=25^\circ\text{C}$)	80	W
P_C	Collector Dissipation ($T_a=25^\circ\text{C}$)	3	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{STG}	Storage Temperature	- 65 ~ 150	$^\circ\text{C}$

Electrical Characteristics $T_C=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
$V_{CEO(sus)}$	* Collector-Emitter Sustaining Voltage	$I_C = 30\text{mA}, I_B = 0$	100		V
I_{CES}	Collector Cut-off Current	$V_{CE} = 60\text{V}, I_B = 0$		0.7	mA
I_{CES}	Collector Cut-off Current	$V_{CE} = 100\text{V}, V_{EB} = 0$		400	μA
I_{EBO}	Emitter Cut-off Current	$V_{EB} = 5\text{V}, I_C = 0$		1	mA
h_{FE}	* DC Current Gain	$V_{CE} = 4\text{V}, I_C = 0.3\text{A}$ $V_{CE} = 4\text{V}, I_C = 3\text{A}$	30 15	75	
$V_{CE(sat)}$	* Collector-Emitter Saturation Voltage	$I_C = 6\text{A}, I_B = 600\text{mA}$		1.5	V
$V_{BE(on)}$	* Base-Emitter Saturation Voltage	$V_{CE} = 4\text{V}, I_C = 6\text{A}$		2.0	V
f_T	Current Gain Bandwidth Product	$V_{CE} = 10\text{V}, I_C = 500\text{mA}$	3.0		MHz

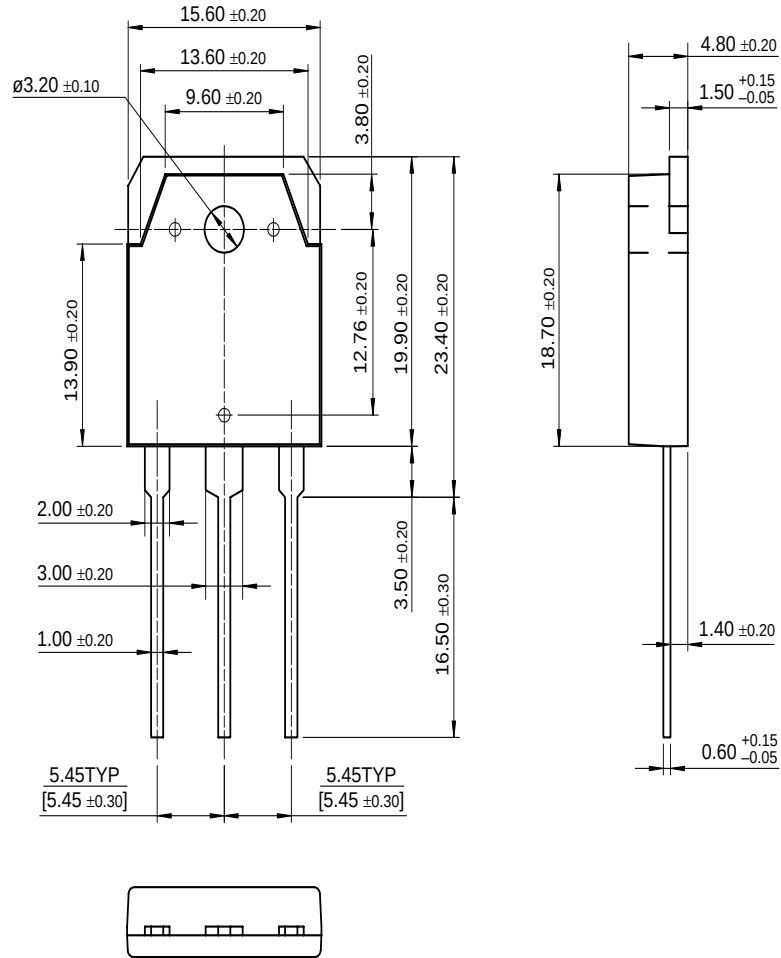
* Pulse Test : PW300, Duty Cycle2%

Typical Characteristics



Package Dimensions

TO-3P



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